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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/940,210 08/28/2001		Sang Min Lee	DMJOO2	4969
. 75	590 05/21/2003			
Delphine M. J	ames		EXAMINER	
#170 2656 South Loop West Houston, TX 77054			NGUYEN, FRANCIS N	
		·	ART UNIT	PAPER NUMBER
			2674	
			DATE MAILED: 05/21/2003	)

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/940,210	LEE, SANG MIN				
Office Action Summary	Examiner	Art Unit				
	FRANCIS NGUYEN	2674				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on						
	· s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
)⊠ Claim(s) <u>NONE</u> is/are allowed.						
6)⊠ Claim(s) <u>1,3-7,9-13 and 15-18</u> is/are rejected.						
7) ☐ Claim(s) <u>2,8 and 14</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on <u>04 December 2001</u> is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1.☐ Certified copies of the priority documents	have heen received					
2. Certified copies of the priority documents		on No				
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of	•					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
<ul> <li>a)          The translation of the foreign language provides     </li> <li>15) Acknowledgment is made of a claim for domestic</li> </ul>	• •					
Attachment(s)						
1) Motice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				
Patent and Trademark Office						

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#### **DETAILED ACTION**

### Claim Objections

1. Claims 4, 10, 16 are objected to because of the following informalities: incorrect word "Crystals" in claim 4( page 4, line 5), claim 10( page 13, line 16), claim 16 ( page 14, line 29). Appropriate correction is required.

# Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 3-7, 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Genest et al. (US Patent 6,480,377) in view of Price et al. (US Patent 6,377,444).

  As to claim 1, Genesis et al. teaches a handheld computerized device (handheld computer 12 shown in figure 1, column 7, lines 50-54) comprising:
- a keyboard portion having a support base and a keypad (keyboard 20 and support base shown in figure 1, column 7, lines 34-36, plurality of individual keys 58 shown in figure 3), an electronic housing having a configuration defined by a top surface, a bottom surface, a rear edge, a front edge, and a pair of side edges, the front edge of the electronic housing being hingedly coupled to the front edge of the support base (housing of handheld computer 12 shown in figure 1, hinge structure 17, column 7, lines 15-16)

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a pair of hand support means (latch hook 60 and hook receiving member 62, column 14, lines

28-32)

a means for displaying data (screen 32, column 8, lines 12-14)

a processor situated within the electronic housing (computer processor 30, column 8, lines 1-3)

However, Genest et al. fails to teach electronic housing pivot from a closed position into an

open position wherein the bottom surface of the electronic housing is parallel to the bottom

surface of the support base. Price et al. teaches hinged housings for electronic devices ( see

abstract), with first body portion and second body portion for rotation at an angle greater than

180 degrees from the mounting surface (column 3, lines 15-18). It would have been obvious to

a person of ordinary skill in the art at the time of the invention to utilize the apparatus of Genest

et al. then modify the electronic housing to pivot from a closed position to an open position for

more than 180 degrees as taught by Price et al. to obtain the apparatus Genest et al. modified by

Price et al. because it would allow user to have multiple configurations, as taught by Price et al.

(column 5, lines 35-36).

As to claim 3, the device recited in claim 1, wherein the display means further comprises: a

display area defined by a top edge, bottom edge, and a pair of side edges (Genest et al., screen

32, column 8, lines 3-4); a front panel surrounding the display area and being defined by a

top strip, a bottom strip, and a pair of side strips; and each edge of the display lying adjacent to

and being securely attached to each corresponding strip of the display area (inherent on front

side 26 shown on figure 1, for supporting LCD screen 32).

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As to claim 4, the device recited in claim 3 wherein the display area is a Liquid Crystal Display (Genest et al., column 8, lines 13-14).

As to claim 5, the device recited in claim 3, wherein the bottom strip and each side strip of the front panel further comprises a plurality of additional alphanumeric keys (Genest et al., keys 58 and switches 56, column 11, lines 7-8) each adapted to generate a character signal upon depression thereof; and a means for electrically connecting the plurality of additional alphanumeric keys to the processor whereby each generated character signal is transmitted to the processor (data port and data connector, column 11, lines 13-15).

As to claim 6, the device recited in claim 1, further comprising a pressure sensitive writing means for allowing data to be inputted via handwriting (Genest et al., coumn 8, lines 15-17 column 11, lines 58-64).

As to claim 7, Genesis et al. teaches a handheld computerized device (handheld computer 12 shown in figure 1, column 7, lines 50-54) comprising:

a keyboard portion having a support base and a keypad (keyboard 20 and support base shown

in figure 1, column 7, lines 34-36) plurality of individual keys 58 shown in figure 3),

an electronic housing having a configuration defined by a top surface, a bottom surface, a rear

edge, a front edge, and a pair of side edges (housing of handheld computer 12 shown in figure

1)

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a pair of hand support means (latch hook 60 and hook receiving member 62, column 14, lines

28-32)

a means for displaying data (screen 32, column 8, lines 12-14)

a processor situated within the electronic housing (computer processor 30, column 8, lines 1-3)

However, Genest et al. fails to teach bottom surface of the electronic housing being securedly

attached to the bottom surface of the keyboard portion. Note that Genest et al. does teach a hinge

structure 17 (column 7, lines 15-16); this would allow pivoting. It would have been obvious to a

person of ordinary skill in the art at the time of the invention to utilize the apparatus of Genest et

al. then make use of the hinge for pivoting resulting in bottom surface of the electronic housing

attached to the bottom surface of the keyboard portion to obtain the apparatus Genest et al.

modified because it would allow different configurations for user.

As to claim 9, the device recited in claim 7, wherein the display means further comprises: a

display area defined by a top edge, bottom edge, and a pair of side edges (Genest et al., screen

32, column 8, lines 3-4); a front panel surrounding the display area and being defined by a

top strip, a bottom strip, and a pair of side strips; and each edge of the display lying adjacent to

and being securely attached to each corresponding strip of the display area (inherent on front

side 26 shown on figure 1, for supporting LCD screen 32).

As to claim 10, the device recited in claim 7 wherein the display area is a Liquid Crystal

Display (Genest et al., column 8, lines 13-14).

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As to claim 11, the device recited in claim 9, wherein the bottom strip and each side strip of the front panel further comprises a plurality of additional alphanumeric keys (Genest et al., keys 58 and switches 56, column 11, lines 7-8) each adapted to generate a character signal upon depression thereof; and a means for electrically connecting the plurality of additional alphanumeric keys to the processor whereby each generated character signal is transmitted to the processor (data port and data connector, column 11, lines 13-15).

As to claim 12, the device recited in claim 7, further comprising a pressure sensitive writing means for allowing data to be inputted via handwriting (Genest et al., coumn 8, lines 15-17 column 11, lines 58-64).

Claims 13, 15-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Genest et al. (US Patent 6,480,377) in view of Allgeyer et al. (US Patent 6,4777,042)

As to claim 13, Genesis et al. teaches a handheld computerized device (handheld computer 12 shown in figure 1, column 7, lines 50-54) comprising:

a keyboard portion having a support base and a keypad (keyboard 20 and support base shown in figure 1, column 7, lines 34-36) plurality of individual keys 58 shown in figure 3),

an electronic housing having a configuration defined by a top surface, a bottom surface, a rear edge, a front edge, and a pair of side edges (housing of handheld computer 12 shown in figure 1)

a pair of hand support means (latch hook 60 and hook receiving member 62, column 14, lines 28-32)

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a means for displaying data (screen 32, column 8, lines 12-14)

a processor situated within the electronic housing (computer processor 30, column 8, lines 1-3)

However, Genest et al. fails to teach sliding brackets having a pair of guide members. Allgeyer

et al. teaches a sliding bracket with rails (column 11, lines 55-57). It would have been obvious

to a person of ordinary skill in the art at the time of the invention to utilize the apparatus of

Genest et al. then make use of sliding brackets with guide members as taught by Allgeyer to

obtain the apparatus Genest et al. modified by Allgeyer et al. because it would allow ease of

assembling/disassembling, as taught by Allgeyer (column 11, lines 56-57) and also user can

easily change configuration.

As to claim 15, the device recited in claim 13, wherein the display means further comprises: a

display area defined by a top edge, bottom edge, and a pair of side edges (Genest et al., screen

32, column 8, lines 3-4); a front panel surrounding the display area and being defined by a

top strip, a bottom strip, and a pair of side strips; and each edge of the display lying adjacent to

and being securely attached to each corresponding strip of the display area (inherent on front

side 26 shown on figure 1, for supporting LCD screen 32).

As to claim 16, the device recited in claim 15 wherein the display area is a Liquid Crystal

Display (Genest et al., column 8, lines 13-14).

As to claim 17, the device recited in claim 15, wherein the bottom strip and each side strip of the

front panel further comprises a plurality of additional alphanumeric keys ( Genest et al., keys

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column 11, lines 58-64).

58 and switches 56, column 11, lines 7-8) each adapted to generate a character signal upon depression thereof; and a means for electrically connecting the plurality of additional alphanumeric keys to the processor whereby each generated character signal is transmitted to the

processor (data port and data connector, column 11, lines 13-15).

As to claim 18, the device recited in claim 13, further comprising a pressure sensitive writing means for allowing data to be inputted via handwriting (Genest et al., coumn 8, lines 15-17

## Allowable Subject Matter

4. Claims 2, 8 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: As to claims 2, 8 and 14, none of prior art teaches the first section of a keypad arranged in the standard QWERTY keyboard for the left hand, the second section of the keypad being arranged in the standard QWERTY keyboard format for the right hand.

### CONCLUSION

5. The prior art made of record not relied upon is pertinent to applicant's disclosure

**US Patent** 

Susel

6,111,527

**US Patent** 

**Tzeng** 

6,431,776

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Reference Susel is made of record as it discloses keyboard assembly for handheld and

subnotebook comprising a primary keyboard and an auxiliary keyboard.

Reference Tzeng is made of record as it discloses a compact keyboard.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to FRANCIS N NGUYEN whose telephone number is 703 308-

8858. The examiner can normally be reached during hours 8:00 AM- 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, RICHARD A HJERPE can be reached at 703 305-4079.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,

Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Technology Center 2600 Customer Service whose telephone number is

(703) 306-0377.

May 16th, 2003

FRANCIS N NGUYEN

Examiner

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